# Visual UI Testing

**~~10/10/2021 – 19/11/2021~~**

1. **~~Vision~~**
   1. ~~Basic process working~~
   2. ~~Advanced matching algorithms~~
      1. ~~dHash, pHash, aHash~~
      2. ~~SIFT, SURF~~
      3. ~~Siamese NN~~
   3. ~~Adaptive threshold~~
   4. ~~Modal recognition~~
   5. ~~Performance improvement~~
2. **~~Robotic~~**
   1. ~~Basic process working (Review and revise Robotic program) - 15/11/2021~~
   2. ~~Integration with Vision detection part~~

**22/11/2021 – 30/11/2021**

1. **Whole process improvement**
   1. Accuracy
      1. Vision
         1. Detection
         2. Matching
      2. ~~Robot arm~~
         1. ~~Calibration~~
   2. Performance
      1. Vision
         1. ~~Detection~~
            1. ~~OCR~~
         2. Matching
      2. Robot arm
2. **Robot Arm**
   1. Hardware & driver upgrade
3. **Vision**
   1. New matching algorithms
      1. Auto-encoder
4. **Dataset**
   1. Auto-testing tools to click app & collect UI

Paper1.

Benchmark, propose challenge, simple visual, large dataset (app), robotic system, auto testing record

Paper2.

Visual innovation, differing techniques

Paper3.